

.com Registry Agreement Appendix 5A

Registration Data Publication Services Specification

(Effective as of the Updated Bulk Zone File and Whois Service Effective Date)

- A. **Registration Data Directory Services.** Registration Data Directory Services (or RDDS) refers to the collective of WHOIS (via port 43), WHOIS web-based directory service(s) and Registration Data Access Protocol (“RDAP”) services, as defined in this Appendix. Registry Operator shall offer public IPv6 and IPv4 transports for its RDDS. Registry Operator will operate a WHOIS service available via port 43 in accordance with RFC 3912 at whois.verisign.net, and a WHOIS web-based directory service at www.verisign.com/whois providing free public query-based access to the elements defined in this Appendix 5A.
 - B. Solely as it relates to this Appendix 5A, Registry Operator shall operate an “RDAP service” for querying registration data using a RESTful web service and uniform query patterns as defined in RFCs: 7480-7484, 8056, 8605.
 - C. Registry Operator must implement only those sections of the Registration Data Consistent Labeling and Display Policy (<https://www.icann.org/resources/pages/rdds-labeling-policy-2017-02-01-en>) in conjunction with this Appendix 5A that are relevant to the type of TLD operated, e.g., “thick” or “thin” registry model (e.g. exclude information from any contact: registrant, admin, tech, billing etc.). As of the Updated Bulk Zone File and Whois Service Effective Date, the .com TLD is considered a “thin” registry model.
1. ICANN reserves the right to specify alternative formats and protocols, and upon such specification, the Registry Operator will implement such alternative specification as soon as reasonably practicable.
 - 1.1. The format of responses shall follow a semi-free text format outline below, followed by a blank line and a legal disclaimer specifying the rights of Registry Operator, and of the user querying the database.
 - 1.2. Each data object shall be represented as a set of key/value pairs, with lines beginning with keys, followed by a colon and a space as delimiters, followed by the value.
 - 1.3. For fields where more than one value exists, multiple key/value pairs with the same key shall be allowed (for example to list multiple name servers). The first key/value pair after a blank line should be considered the start of a new record, and should be considered as identifying that record, and is used to group data, such as hostnames and IP addresses, or a domain name and registrant information, together.

1.4. The fields specified below set forth the minimum output requirements. Registry Operator may output data fields in addition to those specified below, subject to approval by ICANN, which approval shall not be unreasonably withheld.

1.5. **Domain Name Data:**

1.5.1 **Query format:** whois EXAMPLE.TLD

1.5.2 **Response format:**

Domain Name: EXAMPLE.TLD
Registry Domain ID: D1234567-TLD
Registrar WHOIS Server: whois.example.tld
Registrar URL: http://www.example.tld
Updated Date: 2009-05-29T20:13:00Z
Creation Date: 2000-10-08T00:45:00Z
Registry Expiry Date: 2010-10-08T00:44:59Z
Registrar: EXAMPLE REGISTRAR LLC
Registrar IANA ID: 5555555
Registrar Abuse Contact Email: email@registrar.tld
Registrar Abuse Contact Phone: +1.1235551234
Domain Status: clientDeleteProhibited
Domain Status: clientRenewProhibited
Domain Status: clientTransferProhibited
Domain Status: serverUpdateProhibited
Registry Registrant ID: 5372808-ERL
Registrant Name: EXAMPLE REGISTRANT
Registrant Organization: EXAMPLE ORGANIZATION
Registrant Street: 123 EXAMPLE STREET
Registrant City: ANYTOWN
Registrant State/Province: AP
Registrant Postal Code: A1A1A1
Registrant Country: EX
Registrant Phone: +1.5555551212
Registrant Phone Ext: 1234
Registrant Fax: +1.5555551213
Registrant Fax Ext: 4321
Registrant Email: EMAIL@EXAMPLE.TLD
Registry Admin ID: 5372809-ERL
Admin Name: EXAMPLE REGISTRANT ADMINISTRATIVE
Admin Organization: EXAMPLE REGISTRANT ORGANIZATION
Admin Street: 123 EXAMPLE STREET
Admin City: ANYTOWN
Admin State/Province: AP
Admin Postal Code: A1A1A1
Admin Country: EX
Admin Phone: +1.5555551212

Admin Phone Ext: 1234
Admin Fax: +1.5555551213
Admin Fax Ext:
Admin Email: EMAIL@EXAMPLE.TLD
Registry Tech ID: 5372811-ERL
Tech Name: EXAMPLE REGISTRAR TECHNICAL
Tech Organization: EXAMPLE REGISTRAR LLC
Tech Street: 123 EXAMPLE STREET
Tech City: ANYTOWN
Tech State/Province: AP
Tech Postal Code: A1A1A1
Tech Country: EX
Tech Phone: +1.1235551234
Tech Phone Ext: 1234
Tech Fax: +1.5555551213
Tech Fax Ext: 93
Tech Email: EMAIL@EXAMPLE.TLD
Name Server: NS01.EXAMPLEREGISTRAR.TLD
Name Server: NS02.EXAMPLEREGISTRAR.TLD
DNSSEC: signedDelegation
URL of the ICANN Whois Inaccuracy Complaint Form:
<https://www.icann.org/wicf/>
>>> Last update of WHOIS database: 2009-05-29T20:15:00Z <<<

1.6. Registrar Data:

1.6.1 **Query format:** whois "registrar Example Registrar, Inc."

1.6.2 **Response format:**

Registrar: Example Registrar, Inc.
Street: 1234 Admiralty Way
City: Marina del Rey
State/Province: CA
Postal Code: 90292
Country: US
Phone Number: +1.3105551212
Fax Number: +1.3105551213
Email: registrar@example.tld
Registrar WHOIS Server: whois.example-registrar.tld
Registrar URL: <http://www.example-registrar.tld>
Admin Contact: Joe Registrar
Phone Number: +1.3105551213
Fax Number: +1.3105551213
Email: joeregistrar@example-registrar.tld
Admin Contact: Jane Registrar
Phone Number: +1.3105551214

Fax Number: +1.3105551213
Email: janeregistrar@example-registrar.tld
Technical Contact: John Geek
Phone Number: +1.3105551215
Fax Number: +1.3105551216
Email: johngEEK@example-registrar.tld
>>> Last update of WHOIS database: 2009-05-29T20:15:00Z <<<<

1.7. **Nameserver Data:**

1.7.1 **Query format:** whois “nameserver (nameserver name)”, or whois “nameserver (IP Address).” For example: whois “nameserver NS1.EXAMPLE.TLD”.

1.7.2 **Response format:**

Server Name: NS1.EXAMPLE.TLD
IP Address: 192.0.2.123
IP Address: 2001:0DB8::1
Registrar: Example Registrar, Inc.
Registrar WHOIS Server: whois.example-registrar.tld
Registrar URL: http://www.example-registrar.tld
>>> Last update of WHOIS database: 2009-05-29T20:15:00Z <<<<

1.8. The format of the following data fields: domain status, individual and organizational names, address, street, city, state/province, postal code, country, telephone and fax numbers (the extension will be provided as a separate field as shown above), email addresses, date and times should conform to the mappings specified in EPP RFCs 5730-5734 so that the display of this information (or values return in WHOIS responses) can be uniformly processed and understood.

1.9. **Searchability.** Offering searchability capabilities on the WHOIS web-based directory services is optional but if offered by the Registry Operator it shall comply with the specification described in this section.

1.9.1 Registry Operator will offer searchability on the WHOIS web-based directory service.

1.9.2 Registry Operator will offer partial match capabilities, at least, on the following fields: domain name, contacts and registrant’s name, and contact and registrant’s postal address, including all the sub-fields described in EPP (e.g., street, city, state or province, etc.).

1.9.3 Registry Operator will offer exact-match capabilities, at least, on the following fields: Registrar ID, name server name, and name server’s IP address (only applies to IP addresses stored by the registry, i.e., glue records).

- 1.9.4 Registry Operator will offer Boolean search capabilities supporting, at least, the following logical operators to join a set of search criteria: AND, OR, NOT.
 - 1.9.5 Search results will include domain names matching the search criteria.
 - 1.9.6 Registry Operator will: 1) implement appropriate measures to avoid abuse of this feature (e.g., permitting access only to legitimate authorized users); and 2) ensure the feature is in compliance with any applicable privacy laws or policies.
- 1.10. Registry Operator shall provide a link on the primary website for the TLD (i.e., the website provided to ICANN for publishing on the ICANN website) to a web page designated by ICANN containing the registration directory services policy and educational materials. ICANN designates <https://lookup.icann.org> as such web page and may update its designation from time to time, in which case Registry Operator shall implement the new web page link on its primary website within thirty (30) calendar days of ICANN's designation and notification to the Registry Operator.

2. **Bulk Registration Data Access to ICANN**

2.1 **Periodic Access to Thin Registration Data.** In order to verify and ensure the operational stability of the Registry Services, analyze the operational stability of the DNS and facilitate compliance checks and audits of accredited registrars, Registry Operator will provide ICANN on a daily basis with up-to-date registration data as specified below. Data will include data committed as of 00:00:00 UTC on the day previous day.

2.1.1 **Contents.** Registry Operator must only provide the following data for all registered domain names: domain name, domain name repository object id (roid), Registrar ID (IANA ID), statuses, last updated date, creation date, expiration date, and name server names. For sponsoring registrars, Registry Operator must only provide: registrar name, registrar ID (IANA ID), hostname of registrar Whois server, and URL of registrar.

2.1.2 **Format.** The data will be provided in the format specified in Appendix 1A Data Escrow Specification (including encryption, signing, etc.) but including only the fields mentioned in the previous section, i.e., the file will only contain Domain and Registrar objects with the fields mentioned above.

2.1.3 **Access.** Registry Operator will have the file(s) ready for download as of 00:00:00 UTC for retrieval by ICANN. The file(s) will be made available for download by SFTP, though ICANN may request other means in the future.

2.2 **Exceptional Access to Thick Registration Data.** This Section 2.2 shall only apply on or after the date the TLD is operated as a "thick" registry model, if any. In case of a registrar failure, deaccreditation, court order, etc. that prompts the temporary or definitive transfer of its domain names to another registrar, at the request of ICANN,

Registry Operator will provide ICANN with up-to-date data for the domain names of the losing registrar. The data will be provided in the format specified in Appendix 1A Data Escrow Specification. The file will only contain data related to the domain names of the losing registrar. Registry Operator will provide the data as soon as commercially practicable, but in no event later than five (5) calendar days following ICANN's request. Unless otherwise agreed by Registry Operator and ICANN, the file will be made available for download by ICANN in the same manner as the data specified in Section 2.1 of this Appendix.